

## CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512**NOTICE OF PROPOSED AWARDS**

Targeted Biomass Solicitation for Biogas Systems or Anaerobic Digestion Technologies  
Renewables Energy Subject Area, Public Interest Energy Research Program  
Original Date: September 9, 2002

In April 2002, the Commission released a *Program Opportunity Notice* for Targeted Biomass Solicitation under the Renewable Energy Subject Area, Public Interest Energy Research (PIER) Program. The Notice announced that up to \$5 million was available as grants to facilitate the accelerated development of biogas systems or anaerobic digestion technologies for distributed generation applications that will help California's electricity become more affordable, diverse, reliable, environmentally acceptable, and safe.

In accordance with the *Application Manual for the Targeted Biomass Solicitation for Biogas Systems or Anaerobic Digestion Technologies in California*, Commission staff screened each proposal submitted for completeness, eligibility and feasibility. Then each proposal that passed the screening process was reviewed by outside experts and technical consultants. Then, the Commission's Scoring Committee reviewed, evaluated, and scored proposals that passed the screening process using the technical and policy evaluation criteria that are specified in the Application Manual. Based on the Scoring Committee's evaluation, scores and suggested conditions for funding, the Commission's Research, Development and Demonstration Committee (Committee) has made its proposed funding recommendations for this targeted solicitation. This Notice of Proposed Awards is hereby issued pursuant to those recommendations.

The attached table shows the Notice of Proposed Awards for the Targeted Biomass Solicitation for Biogas Systems or Anaerobic Digestion Technologies that was approved by the Committee on September 5, 2002. The table shows the applicants selected to receive funding, the project title, funding level, and the results of evaluation and scoring of submitted proposals. This notice is being mailed to all parties who submitted a final application to this solicitation and is also posted on the Commission Web Site as follows: <http://www.energy.ca.gov/pier/funding.html>

The full Commission will consider the Committee's recommendations during a publicly noticed Business Meeting, in Sacramento, California. This meeting is scheduled for October 9, 2002.

Persons wishing further information about this matter may contact Valentino Tiangco at (916) 654-4664.

A handwritten signature in cursive script, reading "George Simons".

George Simons, Program Manager  
Renewables Energy Subject Area  
Public Interest Energy Research Program



**CALIFORNIA ENERGY COMMISSION**  
**Public Interest Energy Research Program (PIER)**  
**Notification of Proposed Awards**  
**and Results of Submitted Proposals**

**NOPA Date:** Sep 06, 2002

**Posted Date:** Sep 09, 2002

**Dispute Expiration Date:** Sep 16, 2002

**Biogas Systems or Anaerobic Digestion Technologies**

Proposal ID	Applicant	Project Title	Funding Amount Requested	Match Funds Pledged	Total Score	Rank
<b><u>Proposed Award</u></b>						
18	<b><i>TIAX LLC</i></b>	Hydrogen-Assisted Lean Operation for Biogas Reciprocating Engines	\$497,811	\$133,000	104	1
16	<b><i>Stearns, Conrad and Schmidt Consulting Engineers, Inc.</i></b>	Landfill Gas Fired 250 kW Microturbine	\$450,000	\$499,047	101	2
20	<b><i>Makel Engineering Inc./Darby B. Makel</i></b>	Biogas-fueled Low Emission HCCI Generator	\$457,042	\$149,995	100	3
2	<b><i>Flexenergy, Inc.</i></b>	The Flex-Microturbine for Landfill and Digester Gases	\$499,548	\$698,548	95	4
5	<b><i>Valley Fig Growers</i></b>	Valley Fig Growers Anaerobic Digester	\$476,002	\$731,223	94	5
<b>Total Requested =</b>			<b>\$2,380,403</b>	<b>\$2,211,813</b>		



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<b><u>Did Not Pass - Technical Score</u></b>					
19	<b><i>Meridian Source, LLC/Bushnell Industries, Inc.</i></b>	Meridian's Green Project	\$500,000	\$510,000	Did Not Pass
15	<b><i>Stearns, Conrad and Schmidt Consulting Engineers, Inc.</i></b>	Pulse Power Anaerobic Digester Enhancement	\$250,000	\$275,000	Did Not Pass
6	<b><i>Institute for Environmental Management (IEM)</i></b>	IC Engines with Biofiltration for Landfill Gas Electricity	\$392,634	\$128,566	Did Not Pass
12	<b><i>GE Energy Environmental Research Corporation (Combined 7 and 12)</i></b>	An Integrated High Efficiency Distributed Power System Using a PEM Fuel Cell and an Autothermal Cyclic Reformer Operating on Biogas	\$500,000	\$500,000	Did Not Pass
14	<b><i>Onsite Energy Corporation</i></b>	Demonstration of Co-production of Electricity, LNG, and CO@ at Point Loma	\$500,000	\$3,300,000	Did Not Pass
9	<b><i>East Bay Municipal Utility District</i></b>	Distributed Biogas Production Using Anaerobic Membrane Bioreactors	\$500,000	\$0	Did Not Pass



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10	<b><i>Advanced Power and Energy Program (Combined 10 and 11)</i></b>	Development and Validation of MTG-Based Anaerobic Digestion Technology	\$499,929	\$68,094	Did Not Pass
13	<b><i>Gas Technology Institute</i></b>	Renewable Energy by Anaerobic Digestion Technologies in California	\$495,999	\$299,190	Did Not Pass
17	<b><i>Cyclus Envirosystems, Inc.</i></b>	High Rate Anaerobic Digestion of Dairy Waste	\$500,000	\$1,065,000	Did Not Pass
8	<b><i>Christian School of Technology (Combined 1 and 8)</i></b>	Energy Scavenger Engine By Heat Outside the Engine	\$500,000	\$1,000,000	Did Not Pass
<b>Total Requested =</b>			<b>\$4,638,562</b>	<b>\$7,145,850</b>	



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<b><u>Disqualified - Completeness and Feasibility</u></b>					
4	<b><i>Energy Flow Management, Inc.</i></b>	Colusa County Anaerobic Digester Project	\$500,000	\$700,000	Disqualified
3	<b><i>Sharp Energy, Inc.</i></b>	Stockpiled Animal Manure Utilization	\$82,119	\$88,500	Disqualified
<b>Total Requested =</b>			<b>\$582,119</b>	<b>\$788,500</b>	